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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : **Confirmation No. 2024**  
Kazunori KATAOKA et al. : Attorney Docket No. 2004\_1437A  
Serial No. 10/507,303 : Group Art Unit 1641  
Filed October 7, 2004 : Examiner Haq, Shafiquil  
  
**BRUSH-LIKE STRUCTURED SURFACE OF  
POLY (ETHYLENE OXIDE) HAVING  
ELEVATED DENSITY** : **Mail Stop AMENDMENT**

**PATENT OFFICE FEE TRANSMITTAL FORM**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Attached hereto is a check in the amount of \$180.00 to cover Patent Office fees relating to filing the following attached papers:

Information Disclosure Statement ..... \$180.00

A duplicate copy of this paper is being submitted for use in the Accounting Division, Office of Finance.

*The Commissioner is authorized to charge any deficiency or to credit any overpayment associated with this communication to Deposit Account No. 23-0975, with the EXCEPTION of deficiencies in fees for multiple dependent claims in new applications.*

Respectfully submitted,

Kazunori KATAOKA et al.

THE COMMISSIONER IS AUTHORIZED  
TO GRANT ANY DEFICIENCY IN THE  
FEE FOR THIS PAPER TO DEPOSIT  
ACCOUNT NO. 23-0975

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December 23, 2005

[Check No. 71771]  
2004\_1437A



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Kazunori KATAOKA et al. : Attorney Docket No. 2004\_1437A  
Serial No. 10/507,303 : Group Art Unit 1641  
Filed October 7, 2004 : Examiner Shafiqul Haq  
**BRUSH-LIKE STRUCTURED SURFACE** **Mail Stop: Amendment**  
**OF POLY (ETHYLENE OXIDE) HAVING**  
**ELEVATED DENSITY**

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

- ☒ each U.S. Patent and U.S. Patent application publication;
- ☐ each reference previously cited in the international application PCT/\_\_\_\_\_; and/or
- ☐ each reference previously cited in prior parent application Serial No. \_\_\_\_\_.

1a. ☐ This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

**and thus no certification and/or fee is required.**

1b. ☒ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

(1) ☐ the certification of paragraph 2 below is provided, **or**

(2) ☒ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

**the certification of paragraph 2 below is provided, and**

**the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.**

2. It is hereby certified

- a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or
- b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.
4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
- a. ☐ a full or partial English language translation submitted herewith,
  - b. ☒ a foreign patent office (International) search report (in the English language), of record,
  - c. ☒ the concise explanation contained in the specification of the present application at pages 1 to 4, 5 and 9
  - d. ☐ the concise explanation set forth in the attached English language abstract,
  - e. ☒ the concise explanation set forth below or on a separate sheet attached to the reference:

The following documents were cited in the International Search Report of record:

- 1. WO 01/86301 A and its corresponding U.S. Patent Application Publication No. U.S. 2003/0171506 A1  
(Note: This case has now matured into U.S. Patent no. 6,927,033. U.S. 6,927,033 was also cited in the Official Action dated October 19, 2005.
- 2. JP 2815120 B and its corresponding U.S. Patent No. 5,242,828 and EP 0589867 B1
- 3. WO 97/06202 A and its corresponding U.S. Patent No. 5,929,177
- 4. WO 96/32434 A and its corresponding U.S. Patent No. 5,973,069
- 5. WO 96/33233 A and its corresponding U.S. Patent No. 5,925,720

5. ☐ A foreign patent office search report citing one or more of the references is enclosed.
6. ☐ Statement Under 37 CFR 1.704(d)

Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign Patent Office in a counterpart application, and this communication was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

7. [X] The following references have been cited in the present specification:

A. Szabo, et al., Curr Opin. Struct. Biol. 5(1995) pp. 699-705.  
Japanese Patent no. 3071823 and its corresponding U.S. Patent No. 5,763,191  
(as D2')  
Roberts et al., J. Am. Chem. Soc., (1998) 120, pp. 6548 to 6555.  
Holmlin et al., Langmuir. 17, (2001) pp. 2841 to 2850.  
Pavey et al., Biomaterials, 20 (1999) pp. 885 to 890.  
U.S. Patent No. 4,415,666

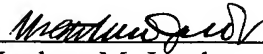
Please note that Japanese Patent No. 2815120 cited in the specification at pages 1 and 4 is also cited in the International Search Report (see document No. (2) in paragraph 4e. of this IDS).

Please also note that WO 01/86301 cited in the specification at pages 4, 5 and 9 is also cited in the International Search Report (see document No. (1) in paragraph 4e. of this IDS).

Respectfully submitted,

Kazunori KATAOKA et al.

THE COMMISSIONER IS AUTHORIZED  
TO CHARGE ANY DEFICIENCY IN THE  
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ACCOUNT NO. 23-0975

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Attorney for Applicants

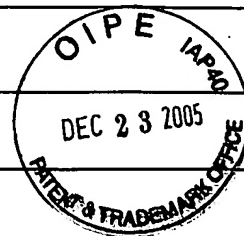
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## INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)  
(Use several sheets if necessary)

Date Submitted to PTO: December 23, 2005

ATTY DOCKET NO.  
2004\_1437ASERIAL NO.  
10/507,303APPLICANT  
Kazunori KATAOKA et al.FILING DATE  
October 7, 2004GROUP  
1641

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	2003/0171506 A1	09/2003	Kataoka et al.			
	AB	5,242,828	09/1993	Bergström et al.			
	AC	5,929,177	07/1999	Kataoka et al.			
	AD	5,973,069	10/1999	Kataoka et al.			
	AE	5,925,720	07/1999	Kataoka et al.			
	AF	5,763,191	06/1998	Knoll et al.			
	AG	4,415,666	11/1983	D'Orazio et al.			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AH	01/86301 A1	11/2001	WO			corresponds to AA
	AI	2815120	08/1998	JP			corresponds to AB and AJ
	AJ	0 589 867 B1	07/1999	EP			corresponds to AI and AB
	AK	97/06202	02/1997	WO			abstract/corresponds to AC
	AL	96/32434	10/1996	WO			abstract/corresponds to AD
	AM	96/33233	10/1996	WO			abstract/corresponds to AE
	AN	3071823	05/2000	JP			corresponds to AF

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

AO	Szabo, A. et al., "Surface plasmon resonance and its use in biomolecular interaction analysis (BIA)", <i>Current Opinion in Structural Biology</i> , Vol. 5, pp. 699 to 705 (1995).
AP	Roberts, C. et al., "Using Mixed Self-Assembled Monolayers Presenting RGD and (EG) <sub>3</sub> OH Groups To Characterize Long-Term Attachment of Bovine Capillary Endothelial Cells to Surfaces", <i>J. Am. Chem. Soc.</i> , Vol. 120, pp. 6548 to 6555 (1998).
AP	Holmlin, R. E. et al., "Zwitterionic SAMs that Resist Nonspecific Adsorption of Protein from Aqueous Buffer", <i>Langmuir</i> , Vol. 17, pp. 2841 to 2850 (2001).
AR	Pavey, K. et al., "SPR analysis of the total reduction of protein adsorption to surfaces coated with mixtures of long- and short-chain polyethylene oxide block copolymers", <i>Biomaterials</i> , Vol. 20, pp. 885 to 890 (1999).

EXAMINER

DATE CONSIDERED